

TC-3000t/i Portable Turbidity, Chlorine & Color

New Ratiometric Design for Turbidity allows for easy and accurate testing!



TC-3000i (ISO version)
Code 1976-I



TC-3000t (EPA version)
Code 1976-T

IP67
WATERPROOF

EPA
180.1

ISO
7027

2 YEAR
WARRANTY

CE

Kits supplied with 0, 1 and 10 NTU standards, 6 sample tubes, DPD tablets, USB cable and AC adapter.

The TC-3000t uses a tungsten lamp and meets the specifications of EPA 180.1.

Industry leading precision and sensitivity in an innovative instrument measuring Ratiometric Turbidity, Chlorine, and Color.

The TC3000t is a portable turbidity, chlorine and color meter with wide range and high accuracy. **ISO unit also available in the TC3000i.** The meter meets EPA 180.1, Rev. 2.0 [1993] and Standard Methods 2130 B-2001 for turbidity and Standards Methods 4500-Cl G for chlorine. The turbidity range is 0-2,000 NTU with a MDL of 0.05 NTU. The free and total chlorine range is 0-4 ppm with a MDL of 0.03 ppm. The meter can store 500 data points which can be downloaded to a computer, allows 6 different languages, and runs on rechargeable batteries or a USB computer/wall adapter.

- Ratiometric design makes it ideally suited for low-level drinking water applications, mid-range industrial applications, and high-range environmental applications
- Special focusing optics
- Supports 6 languages: English, French, Spanish, Chinese, Japanese, Portuguese and Italian
- Data logging up to 500 points with a date and time stamp – stored tests can be viewed on the meter or downloaded to a PC
- Easy to read graphic LCD display
- Easy menu-driven operation

Meter Features

Waterproof	IP67
Signal Average	Disabled, 2, 5, 10
Power	USB computer cable, wall adapter or Lithium ion rechargeable battery, 3.7V, 2.5" x 0.75", 1.7 oz
Data Logging	500 points
Auto Shut-Off	Disabled, 5, 10, 30
Languages	English, French, Spanish, Japanese, Italian, Portuguese, Chinese
Response Time	<2 Seconds
Dimensions	7.5 x 3.5 x 2.5 inches; 19.05 x 8.84 x 6.35 cm

TC-3000t/i, Portable Turbidity, Chlorine & Color

Kits & Accessories

TC-3000t US EPA Compliant, Order Code 1976-t, Turbidity [EPA 180.1, Rev. 2.0 (1993) and Standard Methods 2130 B-2001], Chlorine [Standard Methods 4500-Cl G], Color [based on Standard Methods 2120 C]

TC-3000i ISO Compliant, Order Code 1976-i, Turbidity [ISO 7027], Chlorine [Standard Methods 4500-Cl G], Color [based on Standard Methods 2120 C]

Accessories:

- 0 NTU Standard (EPA and ISO), 60 mL Code 1440
- 1 NTU Standard (EPA), 60 mL Code 1441
- 1 FNU Standard (ISO), 60 mL Code 1446
- 10 NTU Standard (EPA), 60 mL Code 1442
- 10 NTU Standard (ISO), 60 mL Code 1447
- 100 NTU Standard (EPA), 60 mL Code 1443
- 100 FNU Standard (ISO), 60 mL Code 1448
- Formazin Standard Solution, 4000 NTU, 60 mL Code 6195-H
- USB Cable, Code 1720
- Wall Adapter, Code 1721
- Six-pack of vials, Code 0290-6
- Car Charger, Code 5-0132

Turbidity

- Meets design criteria for quantitative methods of turbidity using optical turbidimeters as specified by EPA 180.1, Rev. 2.0 [1993] and Standard Methods 2130 B-2001
- Supplied with formazin verified styrene divinylbenzene bead suspensions (AMCO) for easy and accurate field calibration
- User selected signal averaging (disabled, 2, 5 or 10 measurements)
- Blanking with turbidity-free water allows a zero point calibration for increased accuracy at very low turbidity levels

Mode	Ratiometric	Nephelometric	Attenuation
Unit of Measure TC3000t	NTRU, ASBC, EBC	NTU, ASBC, EBC	AU, ASBC, EBC
Unit of Measure TC3000i	FNRU, ASBC, EBC	FNU, ASBC, EBC	FAU, ASBC, EBC
Range	0-1,000 NTRU/FNRU 0-17,500 ASBC 0-250 EBC	0-100 NTU/FNU 0-1,750 ASBC 0-25 EBC	0-2,000 AU/FAU 0-70,000 ASBC, 0-1,000 EBC
Resolution	0-10.99 NTRU/FNRU: 0.01 11.0-109.9 NTRU/FNRU: 0.1 110-1000 NTRU/FNRU: 1	0-10.99 NTU/FNU: 0.01 11.0-100.0 NTU/FNU: 0.1	0-2000 AU/ FAU: 1
Accuracy	0-2.5 NTRU/FNRU: ±0.05 2.5-100 NTRU/FNRU: ±2% 100-1000 NTRU/FNRU: ±3%	0-2.5 NTU/FNU: ±0.05 2.5-100 NTU/FNU: ±2%	0-2000 AU/FAU: ±10 AU/FAU or 6%, whichever is greater
Detection Limit	0.05 NTRU/FNRU	0.05 NTU/FNU	10 AU/FAU
Range Selection	Automatic		
Calibration Options:	Nephelometric, Ratiometric, Attenuation		
Reproducibility	0.02 NTRU/FNRU or 1%	0.02 NTU/FNU or 1%	1%
Light Source	TC3000t complies with EPA 180.1 and Standard Methods 2130 B; TC3000i complies with ISO 7027		

Chlorine

- Exceeds design specifications for Standard Methods 4500-Cl G
- Liquid and tablet DPD calibrations for Free and Total Chlorine measurement
- Wide-range accomplished with same cell and reagent dosage
- Low level detection.
- User selected units ppm or mg/L

Range	0-4 ppm, Free and Total Chlorine*
Resolution	0.00-5.00 ppm Range: 0.01 ppm; 5.0-10.0 ppm Range: 0.1 ppm
Accuracy	Tablet: 0-1.0 ppm Range: ±0.03 ppm 1.0-3.0 ppm Range: ±0.06 ppm 3.0-4.0 ppm Range: ±0.3 ppm Liquid: 0-0.5 ppm Range: ±0.03 ppm 0.6-3.0 ppm Range: ±0.06 ppm 3.0-4.0 ppm Range: ±0.4 ppm
Detection Limit	0.03 ppm
Response Time	<5 Seconds
Light Source	525 nm LED, complies with Standard Methods 4500-Cl G

*Above 4.0 ppm an "over range" alert displays prior to showing test results. A 1:1 dilution is recommended for reliable results above 4.0 ppm.

Color

- Uses Platinum-Cobalt method from Standard Methods 110.2
- Wavelength 390 nm

Range	0-500 cu
Detection Limit	20 cu
Accuracy	±15 cu
Light Source	390 nm LED